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SLRFLR.0004P

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : George A. Zimmerman, et al. )  
 )  
 Appl. No. : 10/603,417 )  
 )  
 Filed : June 24, 2003 )  
 )  
 For : METHOD AND APPARATUS )  
 FOR EQUALIZATION AND )  
 CROSSTALK MITIGATION )  
 )  
 Examiner : Unknown )  
 )

Group Art Unit 2661

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450, on

December 12, 2003

(Date)

Chad W. Miller, Reg. No. 44,943

PETITION FOR RETRACTION OF NOTICE OF OMITTED ITEM

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This Petition is in response to the Notice of Omitted Item in a Nonprovisional Application mailed November 10, 2003 with respect to the above-referenced application. A check for the refundable petition fee of \$130.00 is also included herewith.

In the Notice of Omitted Items, it is alleged that Figure 13 was not submitted with the above-referenced patent application. Applicants submit that Figure 13 was indeed submitted at the time of filing of the above-referenced application and Applicant's hereby request and Petition that Figure 13 be included with the pending application and afforded the filing date of June 24, 2003, the filing date of the above-referenced application.

12/19/2003 SZEWDIE1 00000034 10603417

CWM-3156.wpd 4/30/02

-1- 01 FC:1460

130.00 00



Appl. No. : 10/603,417  
Filed : June 24, 2003

In support of the Applicant's Petition, Applicants have submitted copies of the following documents:

1. A copy of the postcard filed with application showing that 17 sheets of drawings were filed and received with the Patent Office on June 24, 2003. The filing of 17 figures would include Figure 13.
2. A copy the Certificate of Mailing By Express Mail showing that 17 figures were filed. The filing of 17 figures would include Figure 13.
3. A copy of the document that created the labels for the back of the figures is provided and shows that labels for 17 figures were created.
4. A copy of the Brief Description of the Drawings showing that Figures 1-13 are part of the application as filed.

In addition, a copy of Figure 13 is attached for inclusion in the application. Applicant respectfully requests the granting of this Petition, inclusion of Figure 13, and a refund of the \$130.00 petition fee as outlined in MPEP § 601.01(d).

In any matters remain outstanding, the undersigned requests that the undersigned be contacted by telephone at the number provided below.

**Appl. No.** : 10/603,417  
**Filed** : June 24, 2003

Respectfully submitted,


Dated: 12/12/03 By: C. Miller  
Chad W. Miller  
Registration No. 44,943  
Weide & Miller, Ltd.  
West Bank Building, 5<sup>th</sup> Floor  
7251 W. Lake Mead Blvd., Suite 530  
Las Vegas, NV 89128  
(702)-382-4804 (Pacific time)

OAR  
081499



**RECEIVED IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
Certificate of Mailing, "Express Mail Post Office Addressee" service under 37 CFR 1.10 in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, mailed on June 24, 2003;

- (X) Transmittal (2 pages) in duplicate;
- (X) Declaration by Inventors in 2 pages;
- (X) Assignment Recordation Cover Sheet, Assignment (2 pages) & \$40.00 check
- (X) Power of Attorney by Assignee in 2 pages with copy of Assignment;
- (X) Specification in 49 pages;
- (X) Drawings in 17 sheets;
- (X) A check in the amount of \$837.00 for fees calculated; and
- (X) Return prepaid postcard.

17522 U.S. PTO  
10/603417  
  
06/24/03

Applicants: George A. Zimmerman

Title: **METHOD AND APPARATUS FOR EQUALIZATION AND CROSSTALK  
MITIGATION**

Reference No.: SLRFLR.0004P

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**

Applicant(s): George A. Zimmerman, et al.

Docket No.

SLRFLR.0004P

Serial No.  
UnknownFiling Date  
HerewithExaminer  
UnknownGroup Art Unit  
Unknown

Invention: METHOD AND APPARATUS FOR EQUALIZATION AND CROSSTALK MITIGATION



I hereby certify that the following correspondence:

Transmittal (2 pages) in duplication; Declaration by Inventors (2 pages); Assignment Recordation Cover Sheet, Assignment (2 pages), check for \$40.00; Power of Attorney; Specification in 49 pages; Drawings in 17 sheets; check for \$837.00; return postcard

*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

June 24, 2003*(Date)*Chad W. Miller*(Typed or Printed Name of Person Mailing Correspondence)*  
*(Signature of Person Mailing Correspondence)*EU957744345US*("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**



Drawings Page 1/17

Applicants: **George A. Zimmerman, et al.**  
Title: **METHOD AND APPARATUS FOR EQUALIZATION  
AND CROSSTALK MITIGATION**  
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Las Vegas, NV 89128 Phone (702)-382-4804

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Applicants: **George A. Zimmerman, et al.**  
Title: **METHOD AND APPARATUS FOR EQUALIZATION  
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### BRIEF DESCRIPTION OF THE DRAWINGS

- [034] The components in the figures are not necessarily to scale, emphasis instead being placed upon illustrating the principles of the invention. In the figures, like reference numerals designate corresponding parts throughout the different views.
- 5 [035] Figure 1 illustrates a block diagram of an example embodiment of a two station communication system.
- [036] Figure 2 illustrates a block diagram of a receiver/transmitter pair.
- [037] Figure 3 illustrates a block diagram of an example embodiment of a multi-channel point-to-point communication system.
- 10 [038] Figure 4 illustrates a block diagram of an example embodiment of a transmitter.
- [039] Figure 5 illustrates a block diagram of a FEXT model wherein FEXT that couples from a disturber channel onto a victim channel passes through the victim channel.
- [040] Figure 6 illustrates a block diagram of an example embodiment of a receiver configured based on the invention described herein.
- 15 [041] Figure 7 illustrates a block diagram of a FEXT model wherein FEXT that couples from a disturber channel onto a victim channel passes through the disturber channel prior to coupling.
- [042] Figure 8 illustrates a block diagram of an alternative embodiment of a receiver configured according to the present invention.
- 20 [043] Figure 9 illustrates a block diagram of an example embodiment of a receiver configured in a multi-channel configuration.
- [044] Figures 10A-10C illustrate a block diagram of an example embodiment of a transmitter configured in a multi-channel configuration.
- 25 [045] Figures 11A-11C illustrate a block diagram of an alternative example embodiment of a transmitter configured in a multi-channel configuration.
- [046] Figures 12A and 12B illustrate an operational flow diagram of a general example method of coupling cancellation.

[047] Figure 13 illustrates an operational flow diagram of particular example method of coupling cancellation.

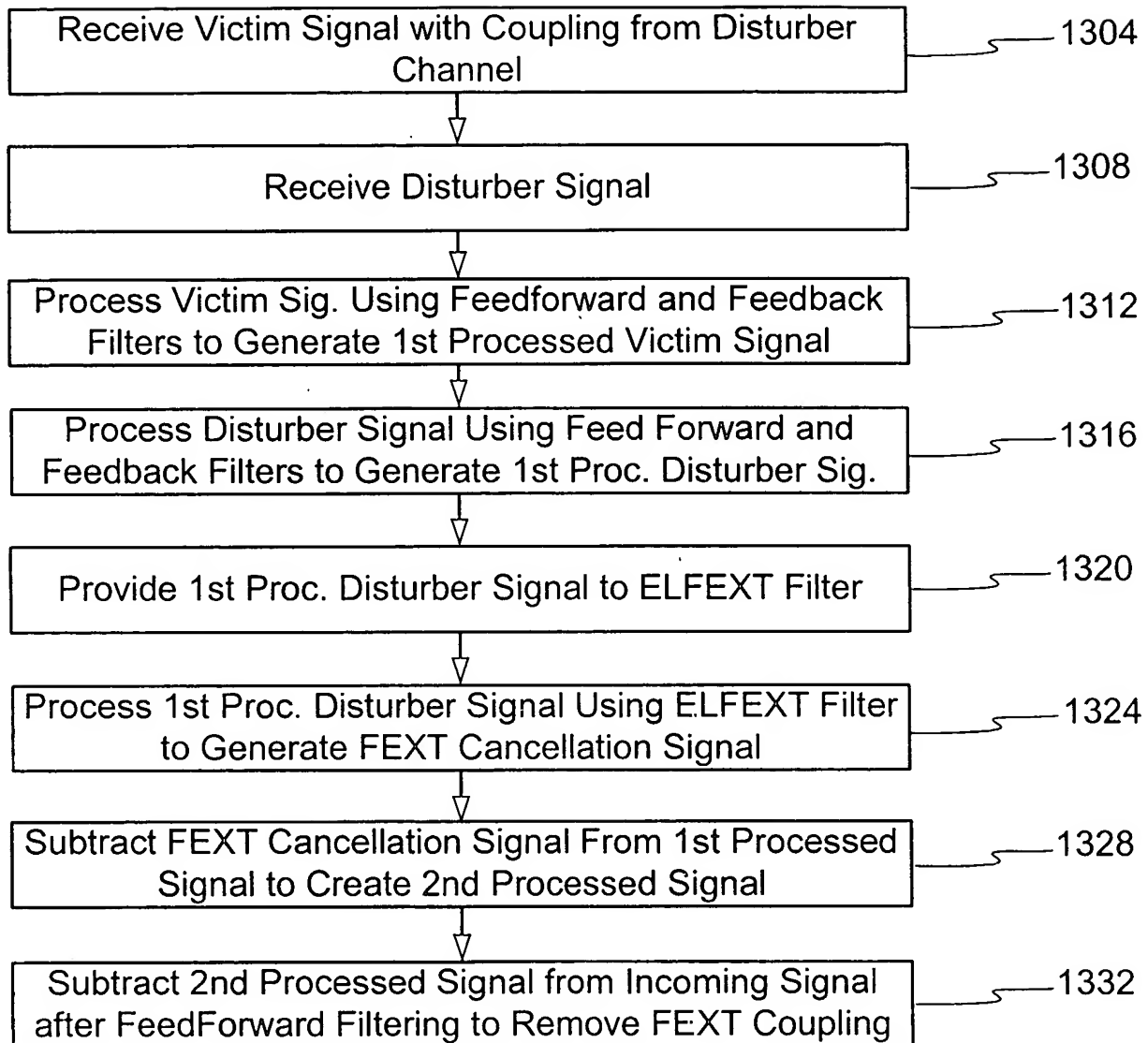


Fig. 13



## UNITED STATES PATENT AND TRADEMARK OFFICE

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 United States Patent and Trademark Office  
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 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/603,417	06/24/2003	George A. Zimmerman	SLRFLR.0004P

CONFIRMATION NO. 3447

## FORMALITIES LETTER



\*OC000000011218072\*

000032856  
 WEIDE & MILLER, LTD.  
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 SUITE 530  
 LAS VEGAS, NV 89128

12/17/2003 SZEWDIE1 00000084 10603417

01 FC:1051

130.00 OP

Date Mailed: 11/10/2003

## NOTICE OF OMITTED ITEM(S) IN A NONPROVISIONAL APPLICATION

Adjustment date: 12/19/2003 SZEWDIE1

12/17/2003 SZEWDIE1 00000084 10603417

01 FC:1051

-130.00 OP

FILED UNDER 37 CFR 1.53(b)

A filing date has been accorded to the above-identified nonprovisional application papers; however, the following item(s) appear to have been omitted from the application:

- Figure(s) 13 described in the specification.

I. Should applicant contend that the above-noted omitted item(s) was in fact deposited in the U.S. Patent and Trademark Office (USPTO) with the nonprovisional application papers, a copy of this Notice and a petition (and \$130.00 petition fee (37 CFR 1.17(h))) with evidence of such deposit **must** be filed within **TWO MONTHS** of the date of this Notice. The petition fee will be refunded if it is determined that the item(s) was received by the USPTO.

II. Should applicant desire to supply the omitted item(s) and accept the date that such omitted item(s) was filed in the USPTO as the filing date of the above-identified application, a copy of this Notice, the omitted item(s) (with a supplemental oath or declaration in compliance with 37 CFR 1.63 and 1.64 referring to such items), and a petition under 37 CFR 1.182 (with the \$130.00 petition fee (37 CFR 1.17(h))) requesting the later filing date **must** be filed within **TWO MONTHS** of the date of this Notice.

Applicant is advised that generally the filing fee required for an application is the filing fee in effect on the filing date accorded the application and that payment of the requisite basic filing fee on a date later than the filing date of the application requires payment of a surcharge (37 CFR 1.16(e)). To avoid processing delays and payment of a surcharge, applicant should submit any balance due for the requisite filing fee based on the later filing date being requested when submitting the omitted items(s) and the petition (and petition fee) requesting the later filing date.

III. The failure to file a petition (and petition fee) under the above options (I) or (II) within **TWO MONTHS** of the date of this Notice (37 CFR 1.181(f)) will be treated as a constructive acceptance by the applicant of the application as deposited in the USPTO. **THIS TWO MONTH PERIOD IS NOT EXTENDABLE UNDER 37 CFR 1.136(a) or (b).** In the absence of a timely filed petition in reply to this Notice, the application will maintain a filing date as of the date of deposit of the application papers in the USPTO, and original application papers (*i.e.*, the original disclosure of the invention) will include only those application papers present in the USPTO on the date of deposit.

In the event that applicant elects not to take action pursuant to options (I) or (II) above (thereby constructively electing option (III)), amendment of the specification to renumber the pages consecutively and cancel incomplete sentences caused by any omitted page(s), and/or amendment of the specification to cancel all references to any

omitted drawing(s), relabel the drawing figures to be numbered consecutively (if necessary), and correct the references in the specification to the drawing figures to correspond with any relabeled drawing figures, is required. A copy of the drawing figures showing the proposed changes in red ink should accompany with any drawing changes. Such amendment and/or correction to the drawing figures, if necessary, should be by way of preliminary amendment submitted prior to the first Office action to avoid delays in the prosecution of the application.

Replies should be mailed to: Mail Stop Missing Parts  
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*A copy of this notice **MUST** be returned with the reply.*



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Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE